

ABSTRACT

The present invention discloses 1) a catalyst composition consisting of a crosslinked organic polymer compound and a palladium catalyst, wherein said catalyst is physically carried on said crosslinked organic polymer compound, 2) a manufacturing method of the above catalyst composition 1), characterized by homogenizing a straight chain organic polymer compound, having a crosslinkable functional group, and a palladium catalyst in a solvent dissolving said straight chain organic polymer compound, then depositing a composition thus formed and subjecting the crosslinkable functional group in said deposit to a crosslinking reaction, 3) a method for substitution reaction at an allyl position, characterized by reacting an allyl carbonate and a nucleophilic agent in the presence of the above catalyst composition 1), and 4) a method for oxidizing an alcohol, characterized by subjecting the above catalyst composition 1) to reaction with an alcohol. The catalyst composition of the present invention can be safely and easily handled without danger of spontaneous ignition, and the like, and is extremely useful as a catalyst for various chemical reactions, and further activity thereof is not decreased by repeated use thereof and a metal catalyst does not leak from a polymer compound which is a carrier thereof.